UNR31AEG

Silicon PNP epitaxial planar type

For digital circuits

Features

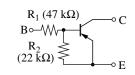
- Suitable for high-density mounting and downsizing of the equipment
- Contribute to low power consumption

Absolute Maximum hatings $T_a = 25$ C								
Parameter	Symbol	Rating	Unit					
Collector-base voltage (Emitter open)	V _{CBO}	-50	V					
Collector-emitter voltage (Base open)	V _{CEO}	-50	V					
Collector current	I _C	-80	mA					
Total power dissipation	P _T	100	mW					
Junction temperature	Tj	125	°C					
Storage temperature	T _{stg}	-55 to +125	°C					

Absolute Maximum Ratings $T_a = 25^{\circ}C$

- Package
- Code SSSMini3-F2
- Marking Symbol: DL
- Pin Name
 - 1: Base
 - 2: Emitter
- 3: Collector

Internal Connection



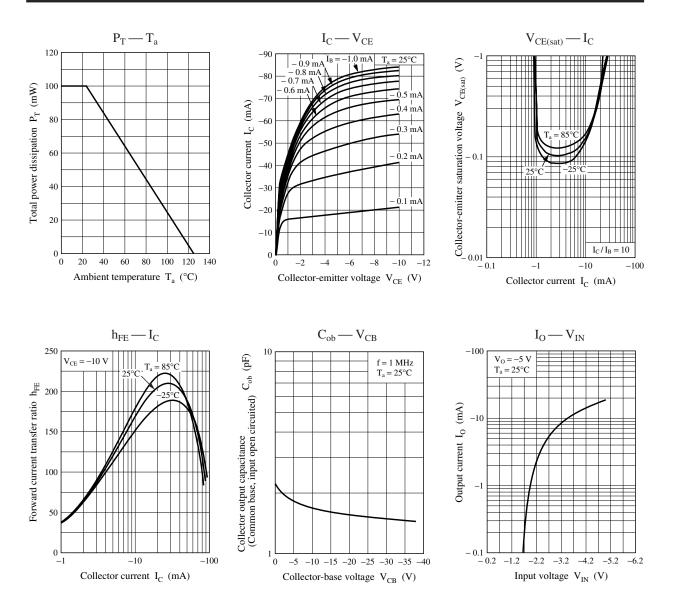
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

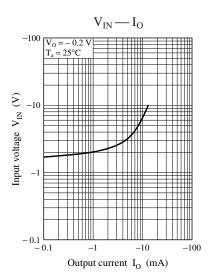
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cut-off current (Emitter open)	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cut-off current (Base open)	I _{CEO}	$V_{CE} = -50 \text{ V}, I_B = 0$			- 0.5	μΑ
Emitter-base cut-off current (Collector open)	I _{EBO}	$V_{EB} = -6 V, I_C = 0$			- 0.2	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$	60			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10$ mA, $I_{\rm B} = -0.3$ mA			- 0.25	V
Output voltage high level	V _{OH}	$V_{CC} = -5 \text{ V}, V_B = -0.5 \text{ V}, R_L = 1 \text{ k}\Omega$	-4.9			V
Output voltage low level	V _{OL}	$V_{CC} = -5 V, V_B = -6 V, R_L = 1 k\Omega$			- 0.2	V
Input resistance	R ₁		-30%	47	+30%	kΩ
Resistance ratio	R ₁ / R ₂		1.7	2.14	2.6	
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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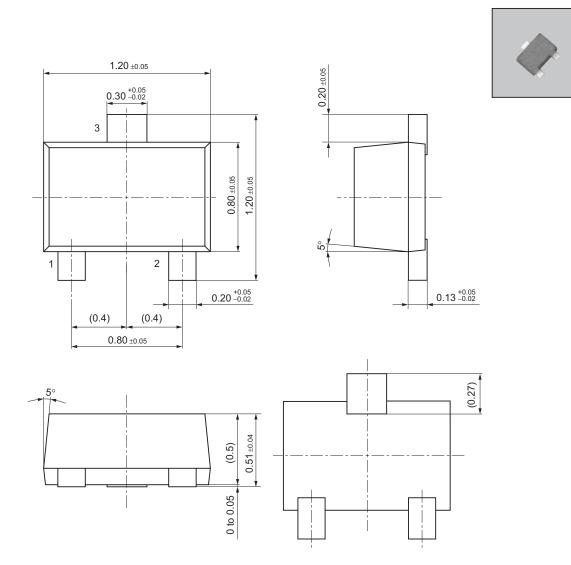






SSSMini3-F2





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